

**DISCRETE-TIME AMPLITUDE CONTROL OF VOLTAGE-CONTROLLED  
OSCILLATOR****ABSTRACT OF THE DISCLOSURE**

5           Periodically, sensed amplitude for the output signal  
of a voltage-controlled oscillator is compared to a  
reference and biasing of the voltage-controlled oscillator  
is correspondingly set, thereby controlling amplitude of  
the voltage-controlled oscillator output signal. Process  
10 and temperature dependencies of the amplitude are  
eliminated while achieving low phase noise and large  
signal-to-noise ratio in the output signal, and  
consequently low phase noise.